

Clay Construction Products: 2002

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Summary

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Current Industrial Reports

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SUMMARY OF FINDINGS. Shipments of brick, building or common and facing, increased 1.5 percent to \$1,714.5 million in 2002, from \$1,688.5 million in 2001. The South Atlantic

region accounted for 32.6 percent of the total value of brick shipments in 2002. More specifically, North Carolina accounted for 13.9 percent of the total value of brick shipments for 2002.

Shipments of structural facing tile and ceramic glazed brick decreased 20.3 percent to \$10.9 million in 2002, from \$13.7 million in 2001.

Shipments of clay floor and wall tile increased 6.3 percent to \$825.2 million in 2002, from \$776.3 million in 2001.

Shipments of vitrified sewer pipe and fittings decreased 5.6 percent to \$50.4 million in 2002, from \$53.3 million in 2001.

For general CIR information, explanation of general terms and historical note, see the appendix.

Address inquiries concerning these data to Primary Goods Industries Branch, Manufacturing and Construction Division (MCD), Washington, DC 20233-6900, or call Ernest Wilson, Jr., 301-763-4736.

For mail or fax copies of this publication, please contact the Information Services Center, MCD, Washington, DC 20233-6900, or call 301-763-4673.

U S C E N S U S B U R E A U

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Table 1. Production and Shipments of Clay Construction Products: 1998 to 2002
[Value in thousands of dollars]

Product code	Product description	Production (quantity)	Shipments	
			Quantity	Value
3271210110	Brick (building or common and face):			
	2002.....	8,469,465	8,040,874	1,714,504
	2001.....	8,298,743	7,941,432	1,688,499
	2000.....	9,107,196	8,616,784	1,694,011
	1999.....	8,552,821	8,931,700	1,631,033
	1998.....	8,081,209	8,241,086	1,453,024
3271210221	Structural facing tile and ceramic glazed brick:			
	2002.....	20,513	19,236	10,948
	2001.....	26,020	25,762	13,735
	2000.....	29,246	28,117	13,246
	1999.....	27,568	26,659	14,586
	1998.....	26,166	25,813	15,106
3271210226	Structural clay tile (except facing):			
	2002.....	46,362	49,563	11,202
	2001.....	49,590	49,453	10,574
	2000.....	44,152	47,009	9,065
	1999.....	46,257	47,156	8,494
	1998.....	50,125	49,098	8,641
3271220000	Clay floor and wall tile:			
	2002.....	622,433	649,488	825,229
	2001.....	589,795	591,080	776,268
	2000.....	671,179	650,483	866,921
	1999.....	624,827	636,242	843,025
	1998.....	621,032	636,805	836,897
3271231000	Vitrified clay sewer pipe and fittings:			
	2002.....	159,248	r/ 139,086	50,352
	2001.....	r/ 148,528	r/ 165,161	r/ 53,302
	2000.....	158,461	161,214	55,653
	1999.....	177,048	178,558	53,615
	1998.....	164,523	156,189	48,105

r/Revised by 5 percent or more from previously published data.

Note: Production and shipment quantities are in thousands of bricks (2-1/4 inch by 3-5/8 inch by 7-5/8 inch brick equivalent) for brick, building or common and facing, and structural facing tile and ceramic glazed brick; short tons for structural clay tile (except facing) and vitrified clay sewer pipe and fittings; and thousands of square feet for clay floor and wall tile.

Table 2a. Production of Brick, Building or Common, and Facing by Regions and State: 2002
[Quantity in thousands of bricks: 2-1/4 inch by 3-5/8 inch by 7-5/8 inch brick equivalent]

Region and state	Total	Fourth quarter	Third quarter	Second quarter	First quarter
United States.....	8,469,465	2,129,041	2,278,963	2,182,901	1,878,560
New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont).....	80,672	19,268	21,843	19,481	20,080
Middle Atlantic (New Jersey, New York, and Pennsylvania).....	449,122	103,138	133,804	r/ 130,857	r/ 81,323
East North Central.....	701,587	174,410	180,236	182,223	164,718
Ohio.....	411,952	101,188	106,782	105,936	98,046
Other (Illinois, Indiana, Michigan, and Wisconsin).....	289,635	73,222	73,454	76,287	66,672
West North Central.....	428,414	107,273	115,586	103,887	101,668
Kansas and Missouri.....	139,788	34,514	35,708	34,875	34,691
Other (Iowa, Minnesota, Nebraska, North Dakota, and South Dakota).....	288,626	72,759	79,878	69,012	66,977
South Atlantic.....	3,135,096	792,370	856,612	808,225	677,889
Virginia.....	465,546	119,944	126,534	118,059	101,009
North Carolina.....	1,434,641	359,726	394,353	371,802	308,760
South Carolina.....	485,982	118,872	130,118	126,705	110,287
Other (Delaware, District of Columbia, Florida, Georgia, Maryland, and West Virginia).....	748,927	193,828	205,607	191,659	157,833
East South Central.....	1,537,545	393,261	406,232	392,590	345,462
Alabama.....	718,655	187,528	191,322	179,947	159,858
Other (Kentucky, Mississippi, and Tennessee).....	818,890	205,733	214,910	212,643	185,604
West South Central.....	1,615,282	406,468	423,340	407,154	378,320
Arkansas.....	(D)	(D)	(D)	(D)	(D)
Louisiana.....	(D)	(D)	(D)	(D)	(D)
Oklahoma.....	(D)	(D)	(D)	(D)	(D)
Texas.....	975,171	242,050	253,390	250,025	229,706
Mountain.....	320,156	81,323	83,781	84,400	70,652
Colorado.....	174,179	44,368	45,368	47,189	37,254
Other (Arizona, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming).....	145,977	36,955	38,413	37,211	33,398
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	201,591	r/ 51,530	r/ 57,529	r/ 54,084	r/ 38,448

D Withheld to avoid disclosing data for individual companies. r/Revised by 5 percent or more from previously published data.

Table 2b. Shipments of Brick, Building or Common, and Facing by Regions and State: 2002
[Quantity in thousands of bricks: 2-1/4 inch by 3-5/8 inch by 7-5/8 inch brick equivalent]

Region and state	Total	Fourth quarter	Third quarter	Second quarter	First quarter
United States.....	8,040,874	1,882,531	2,234,184	2,192,769	1,731,390
New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont).....	72,197	16,165	20,303	20,446	15,283
Middle Atlantic (New Jersey, New York, and Pennsylvania).....	416,999	100,240	118,241	117,210	81,308
East North Central.....	682,846	165,551	198,817	188,997	129,481
Ohio.....	407,320	97,384	118,766	114,249	76,921
Other (Illinois, Indiana, Michigan, and Wisconsin).....	275,526	68,167	80,051	74,748	52,560
West North Central.....	398,656	98,161	113,266	105,961	81,268
Kansas and Missouri.....	124,142	30,988	34,306	31,834	27,014
Other (Iowa, Minnesota, Nebraska, North Dakota, and South Dakota).....	274,514	67,173	78,960	74,127	54,254
South Atlantic.....	2,950,979	669,550	817,261	810,147	654,021
Virginia.....	394,773	88,900	106,949	110,018	88,906
North Carolina.....	1,325,978	302,223	366,770	373,452	283,533
South Carolina.....	482,338	108,768	132,968	130,204	110,398
Other (Delaware, District of Columbia, Florida, Georgia, Maryland, and West Virginia).....	747,890	169,659	210,574	196,473	171,184
East South Central.....	1,510,117	354,293	418,510	407,055	330,259
Alabama.....	720,620	171,931	193,647	190,424	164,618
Other (Kentucky, Mississippi, and Tennessee).....	789,497	182,362	224,863	216,631	165,641
West South Central.....	1,516,298	362,207	409,580	406,158	338,353
Arkansas.....	(D)	(D)	(D)	(D)	(D)
Louisiana.....	(D)	(D)	(D)	(D)	(D)
Oklahoma.....	(D)	(D)	(D)	(D)	(D)
Texas.....	905,873	208,099	243,582	248,662	205,530
Mountain.....	302,797	r/ 71,315	r/ 85,472	r/ 84,339	r/ 61,671
Colorado.....	165,879	39,421	47,505	47,116	31,837
Other (Arizona, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming).....	136,918	31,894	37,967	37,223	29,834
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	189,985	r/ 45,049	r/ 52,734	r/ 52,456	r/ 39,746

D Withheld to avoid disclosing data for individual companies. r/Revised by 5 percent or more from previously published data.

Table 2c. Value of Shipments of Brick, Building or Common, and Facing by Regions and State: 2002
[Value in thousands of dollars]

Region and state	Total	Fourth quarter	Third quarter	Second quarter	First quarter
United States.....	1,714,504	391,690	477,819	474,582	370,413
New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont).....	20,442	4,601	5,797	5,884	r/ 4,160
Middle Atlantic (New Jersey, New York, and Pennsylvania).....	102,497	24,876	28,289	29,103	20,229
East North Central.....	155,620	37,613	45,700	43,477	28,830
Ohio.....	101,797	24,335	29,966	28,577	18,919
Other (Illinois, Indiana, Michigan, and Wisconsin).....	53,823	13,278	15,734	14,900	9,911
West North Central.....	91,685	22,268	25,842	24,833	r/ 18,742
Kansas and Missouri.....	24,962	6,276	6,908	6,439	5,339
Other (Iowa, Minnesota, Nebraska, North Dakota, and South Dakota).....	66,723	15,992	18,934	18,394	r/ 13,403
South Atlantic.....	558,780	125,253	153,056	155,870	124,601
Virginia.....	82,310	18,729	22,688	22,520	18,373
North Carolina.....	237,757	54,296	65,326	67,344	50,791
South Carolina.....	106,545	23,453	28,967	29,459	24,666
Other (Delaware, District of Columbia, Florida, Georgia, Maryland, and West Virginia).....	132,168	28,775	36,075	36,547	30,771
East South Central.....	251,950	56,466	70,192	69,168	56,124
Alabama.....	121,728	27,642	33,035	32,632	28,419
Other (Kentucky, Mississippi, and Tennessee).....	130,222	28,824	37,157	36,536	27,705
West South Central.....	367,835	81,793	102,537	99,826	83,679
Arkansas.....	(D)	(D)	(D)	(D)	(D)
Louisiana.....	(D)	(D)	(D)	(D)	(D)
Oklahoma.....	(D)	(D)	(D)	(D)	(D)
Texas.....	215,262	45,252	61,628	59,424	48,958
Mountain.....	83,059	r/ 19,434	r/ 23,641	r/ 23,313	r/ 16,671
Colorado.....	46,399	11,125	13,329	13,123	8,822
Other (Arizona, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming).....	36,660	8,309	10,312	10,190	7,849
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	82,636	r/ 19,386	r/ 22,765	r/ 23,108	r/ 17,377

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Table 3a. Production of Brick, Building or Common, and Facing by Regions and State: 2001
[Quantity in thousands of bricks: 2-1/4 inch by 3-5/8 inch by 7-5/8 inch brick equivalent]

Region and state	Total	Fourth quarter	Third quarter	Second quarter	First quarter
United States.....	8,298,743	2,009,921	2,135,680	2,125,528	2,027,614
New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont).....	77,505	21,433	19,141	17,508	19,423
Middle Atlantic (New Jersey, New York, and Pennsylvania).....	426,095	87,432	108,543	114,967	115,153
East North Central.....	737,034	172,181	183,051	198,490	183,312
Ohio.....	431,880	100,163	113,098	112,761	105,858
Other (Illinois, Indiana, Michigan, and Wisconsin).....	305,154	72,018	69,953	85,729	77,454
West North Central.....	409,240	104,746	109,226	103,447	91,821
Kansas and Missouri.....	135,405	36,850	35,165	34,591	28,799
Other (Iowa, Minnesota, Nebraska, North Dakota, and South Dakota).....	273,835	67,896	74,061	68,856	63,022
South Atlantic.....	3,082,299	752,084	796,197	791,955	742,063
Virginia.....	446,020	107,269	110,995	114,700	113,056
North Carolina.....	1,323,433	326,410	340,157	338,266	318,600
South Carolina.....	504,234	118,286	138,805	137,825	109,318
Other (Delaware, District of Columbia, Florida, Georgia, Maryland, and West Virginia).....	808,612	200,119	206,240	201,164	201,089
East South Central.....	1,487,293	364,939	372,647	371,561	378,146
Alabama.....	695,049	166,892	176,485	179,857	171,815
Other (Kentucky, Mississippi, and Tennessee).....	792,244	198,047	196,162	191,704	206,331
West South Central.....	1,560,652	383,266	407,498	395,067	374,821
Arkansas.....	(D)	(D)	(D)	(D)	(D)
Louisiana.....	(D)	(D)	(D)	(D)	(D)
Oklahoma.....	(D)	(D)	(D)	(D)	(D)
Texas.....	935,828	226,724	243,074	233,652	232,378
Mountain.....	306,168	71,823	81,940	78,167	74,238
Colorado.....	(D)	(D)	(D)	(D)	(D)
Other (Arizona, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming).....	(D)	(D)	(D)	(D)	(D)
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	212,457	52,017	57,437	54,366	48,637

D Withheld to avoid disclosing data for individual companies.

Table 3b. Shipments of Brick, Building or Common, and Facing by Regions and State: 2001
[Quantity in thousands of bricks: 2-1/4 inch by 3-5/8 inch by 7-5/8 inch brick equivalent]

Region and state	Total	Fourth quarter	Third quarter	Second quarter	First quarter
United States.....	7,941,432	1,936,864	2,133,466	2,164,045	1,707,057
New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont).....	73,444	19,038	20,358	21,156	12,892
Middle Atlantic (New Jersey, New York, and Pennsylvania).....	406,937	95,079	104,649	120,340	86,869
East North Central.....	676,034	163,799	187,273	193,564	131,398
Ohio.....	402,985	96,375	111,418	115,001	80,191
Other (Illinois, Indiana, Michigan, and Wisconsin).....	273,049	67,424	75,855	78,563	51,207
West North Central.....	368,224	96,967	105,435	97,636	68,186
Kansas and Missouri.....	123,441	31,571	36,301	32,876	22,693
Other (Iowa, Minnesota, Nebraska, North Dakota, and South Dakota).....	244,783	65,396	69,134	64,760	45,493
South Atlantic.....	3,003,765	725,469	779,050	815,906	683,340
Virginia.....	415,785	111,025	104,814	112,427	87,519
North Carolina.....	1,302,779	307,775	338,861	356,865	299,278
South Carolina.....	498,404	121,487	135,040	134,658	107,219
Other (Delaware, District of Columbia, Florida, Georgia, Maryland, and West Virginia).....	786,797	185,182	200,335	211,956	189,324
East South Central.....	1,404,776	343,815	377,650	373,785	309,526
Alabama.....	669,225	160,296	183,936	175,415	149,578
Other (Kentucky, Mississippi, and Tennessee).....	735,551	183,519	193,714	198,370	159,948
West South Central.....	1,512,684	377,244	420,850	404,350	310,240
Arkansas.....	(D)	(D)	(D)	(D)	(D)
Louisiana.....	(D)	(D)	(D)	(D)	(D)
Oklahoma.....	(D)	(D)	(D)	(D)	(D)
Texas.....	934,296	230,786	253,495	253,535	196,480
Mountain.....	292,442	65,896	83,172	80,388	62,986
Colorado.....	(D)	(D)	(D)	(D)	(D)
Other (Arizona, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming).....	(D)	(D)	(D)	(D)	(D)
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	203,126	49,557	55,029	56,920	41,620

D Withheld to avoid disclosing data for individual companies.

Table 3c. Value of Shipments of Brick, Building or Common, and Facing by Regions and State: 2001
[Value in thousands of dollars]

Region and state	Total	Fourth quarter	Third quarter	Second quarter	First quarter
United States.....	1,688,499	407,671	461,252	456,432	363,144
New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont).....	20,695	5,359	5,699	5,915	3,722
Middle Atlantic (New Jersey, New York, and Pennsylvania).....	98,851	23,431	24,987	29,071	21,362
East North Central.....	149,808	37,017	41,934	42,986	27,871
Ohio.....	96,663	23,750	26,924	27,339	18,650
Other (Illinois, Indiana, Michigan, and Wisconsin).....	53,145	13,267	15,010	15,647	9,221
West North Central.....	81,736	21,783	23,405	21,535	15,013
Kansas and Missouri.....	23,992	6,156	6,911	6,476	4,449
Other (Iowa, Minnesota, Nebraska, North Dakota, and South Dakota).....	57,744	15,627	16,494	15,059	10,564
South Atlantic.....	561,089	133,712	150,001	150,856	126,520
Virginia.....	75,816	19,528	20,861	19,814	15,613
North Carolina.....	232,783	54,980	60,792	64,407	52,604
South Carolina.....	104,175	25,382	28,261	28,131	22,401
Other (Delaware, District of Columbia, Florida, Georgia, Maryland, and West Virginia).....	148,315	33,822	40,087	38,504	35,902
East South Central.....	235,175	56,733	63,788	61,962	52,692
Alabama.....	116,264	27,007	31,650	30,466	27,141
Other (Kentucky, Mississippi, and Tennessee).....	118,911	29,726	32,138	31,496	25,551
West South Central.....	374,583	89,812	104,985	98,737	81,049
Arkansas.....	(D)	(D)	(D)	(D)	(D)
Louisiana.....	(D)	(D)	(D)	(D)	(D)
Oklahoma.....	(D)	(D)	(D)	(D)	(D)
Texas.....	223,604	52,888	62,128	59,618	48,970
Mountain.....	82,294	18,882	23,468	22,359	17,585
Colorado.....	(D)	(D)	(D)	(D)	(D)
Other (Arizona, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming).....	(D)	(D)	(D)	(D)	(D)
Pacific (Alaska, California, Hawaii, Oregon, and Washington).....	84,268	20,942	22,985	23,011	17,330

D Withheld to avoid disclosing data for individual companies.

Table 4a. Production of Clay Construction Products: 2002 and 2001

Product code	Product description	Total	Fourth quarter	Third quarter	Second quarter	First quarter
2002						
3271210110	Brick, building or common and facing.....	8,469,465	2,129,041	2,278,963	2,182,901	1,878,560
3271210221	Structural facing tile and ceramic glazed brick.....	20,513	r/ 4,976	r/ 6,414	r/ 5,157	r/ 3,966
3271210226	Structural clay tile (except facing).....	46,362	r/ 11,699	11,259	r/ 12,308	r/ 11,096
3271220000	Clay floor and wall tile.....	622,433	155,919	143,593	166,088	156,833
3271220111	Glazed floor and wall tile having a facial area greater than or equal to 6 square inches and less than 59 square inches.....	322,198	76,382	76,888	84,892	84,036
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	162,778	46,369	32,060	44,094	40,255
3271220211	Glazed and unglazed ceramic mosaic tile having a facial area less than 6 square inches.....	(D)	(D)	(D)	(D)	(D)
3271220131	Unglazed tile including unglazed quarry tile having a facial area greater than or equal to 6 square inches.....	(D)	(D)	(D)	(D)	(D)
3271231000	Vitrified clay sewer pipe and fittings.....	159,248	35,126	41,285	45,213	37,624
2001						
3271210110	Brick, building or common and facing.....	8,298,743	2,009,921	2,135,680	2,125,528	2,027,614
3271210221	Structural facing tile and ceramic glazed brick.....	26,020	5,607	7,310	6,670	6,433
3271210226	Structural clay tile (except facing).....	49,590	11,584	13,549	13,026	11,431
3271220000	Clay floor and wall tile.....	589,795	135,902	130,196	160,324	163,373
3271220111	Glazed floor and wall tile having a facial area greater than or equal to 6 square inches and less than 59 square inches.....	303,207	70,546	67,254	81,154	84,253
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	155,384	34,111	29,577	45,719	45,977
3271220211	Glazed and unglazed ceramic mosaic tile having a facial area less than 6 square inches.....	(D)	(D)	(D)	(D)	(D)
3271220131	Unglazed tile including unglazed quarry tile having a facial area greater than or equal to 6 square inches.....	(D)	(D)	(D)	(D)	(D)
3271231000	Vitrified clay sewer pipe and fittings.....	r/ 148,528	r/ 36,564	r/ 39,754	41,323	r/ 30,887

D Withheld to avoid disclosing data for individual companies. r/Revised by 5 percent or more from previously published data.

Note: Production and shipment quantities are in thousands of bricks (2-1/4 inch by 3-5/8 inch by 7-5/8 inch brick equivalent) for brick, building or common and facing, and structural facing tile and ceramic glazed brick; short tons for structural clay tile (except facing) and vitrified clay sewer pipe fittings; and thousands of square feet for clay floor and wall tile.

Table 4b. Quantity of Shipments of Clay Construction Products: 2002 and 2001

Product code	Product description	Total	Fourth quarter	Third quarter	Second quarter	First quarter
2002						
3271210110	Brick, building or common and facing.....	8,040,874	1,882,531	r/ 2,234,184	2,192,769	1,731,390
3271210221	Structural facing tile and ceramic glazed brick.....	19,236	4,157	6,341	r/ 4,677	r/ 4,061
3271210226	Structural clay tile (except facing).....	49,563	r/ 11,933	r/ 13,099	r/ 12,030	r/ 12,501
3271220000	Clay floor and wall tile.....	649,488	152,684	156,268	r/ 168,077	r/ 172,459
3271220111	Glazed floor and wall tile having a facial area greater than or equal to 6 square inches and less than 59 square inches.....	321,961	74,905	r/ 77,743	r/ 82,584	r/ 86,729
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	192,705	44,288	44,182	49,259	54,976
3271220211	Glazed and unglazed ceramic mosaic tile having a facial area less than 6 square inches.....	(D)	(D)	(D)	(D)	(D)
3271220131	Unglazed tile including unglazed quarry tile having a facial area greater than or equal to 6 square inches.....	(D)	(D)	(D)	(D)	(D)
3271231000	Vitrified clay sewer pipe and fittings.....	r/ 139,086	r/ 24,141	r/ 42,854	r/ 36,470	r/ 35,621
2001						
3271210110	Brick, building or common and facing.....	7,941,432	1,936,864	2,133,466	2,164,045	1,707,057
3271210221	Structural facing tile and ceramic glazed brick.....	25,762	5,370	7,334	6,640	6,418
3271210226	Structural clay tile (except facing).....	49,453	12,795	12,489	12,411	11,758
3271220000	Clay floor and wall tile.....	591,080	141,209	138,757	155,200	155,914
3271220111	Glazed floor and wall tile having a facial area greater than or equal to 6 square inches and less than 59 square inches.....	301,591	71,597	66,475	79,545	83,974
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	165,829	38,983	40,799	44,912	41,135
3271220211	Glazed and unglazed ceramic mosaic tile having a facial area less than 6 square inches.....	(D)	(D)	(D)	(D)	(D)
3271220131	Unglazed tile including unglazed quarry tile having a facial area greater than or equal to 6 square inches.....	(D)	(D)	(D)	(D)	(D)
3271231000	Vitrified clay sewer pipe and fittings.....	r/ 165,161	39,357	48,301	r/ 42,672	r/ 34,831

D Withheld to avoid disclosing data for individual companies. r/Revised by 5 percent or more from previously published data.

Note: Production and shipment quantities are in thousands of bricks (2-1/4 inch by 3-5/8 inch by 7-5/8 inch brick equivalent) for brick, building or common and facing, and structural facing tile and ceramic glazed brick; short tons for structural clay tile (except facing) and vitrified clay sewer pipe and fittings; and thousands of square feet for clay floor and wall tile.

Table 4c. Value of Shipments of Clay Construction Products: 2002 and 2001
[Value in thousands of dollars]

Product code	Product description	Total	Fourth quarter	Third quarter	Second quarter	First quarter
2002						
3271210110	Brick, building or common and facing.....	1,714,504	391,690	477,819	474,582	370,413
3271210221	Structural facing tile and ceramic glazed brick.....	10,948	r/ 2,324	3,605	r/ 2,682	r/ 2,337
3271210226	Structural clay tile (except facing).....	11,202	r/ 2,666	r/ 3,011	r/ 2,697	r/ 2,828
3271220000	Clay floor and wall tile.....	825,229	188,636	203,388	215,319	217,886
3271220111	Glazed floor and wall tile having a facial area greater than or equal to 6 square inches and less than 59 square inches.....	387,441	86,351	96,460	98,843	105,787
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	177,473	r/ 41,201	r/ 40,798	r/ 45,328	r/ 50,146
3271220211	Glazed and unglazed ceramic mosaic tile having a facial area less than 6 square inches.....	(D)	(D)	(D)	(D)	(D)
3271220131	Unglazed tile including unglazed quarry tile having a facial area greater than or equal to 6 square inches.....	(D)	(D)	(D)	(D)	(D)
3271231000	Vitrified clay sewer pipe and fittings.....	50,352	8,978	15,684	12,706	12,984
2001						
3271210110	Brick, building or common and facing.....	1,688,499	407,671	461,252	456,432	363,144
3271210221	Structural facing tile and ceramic glazed brick.....	13,735	3,019	4,000	3,672	3,044
3271210226	Structural clay tile (except facing).....	10,574	2,757	2,657	2,677	2,483
3271220000	Clay floor and wall tile.....	776,268	187,396	181,598	200,723	206,551
3271220111	Glazed floor and wall tile having a facial area greater than or equal to 6 square inches and less than 59 square inches.....	356,943	85,129	75,817	94,517	101,480
3271220121	Glazed floor and wall tile having a facial area greater than or equal to 59 square inches.....	166,314	39,325	40,997	43,849	42,143
3271220211	Glazed and unglazed ceramic mosaic tile having a facial area less than 6 square inches.....	(D)	(D)	(D)	(D)	(D)
3271220131	Unglazed tile including unglazed quarry tile having a facial area greater than or equal to 6 square inches.....	(D)	(D)	(D)	(D)	(D)
3271231000	Vitrified clay sewer pipe and fittings.....	r/ 53,302	r/ 12,920	r/ 14,863	r/ 14,261	r/ 11,258
D Withheld to avoid disclosing data for individual companies.		r/Revised by 5 percent or more from previously published data.				

Table 5. Shipments, Exports, and Imports of Selected Clay Construction Products: 2002 and 2001
[Value in thousands of dollars]

Product description	Unit of measure	Manufacturers' shipments		Exports of domestic merchandise		Percent exports to manufacturers' shipments	
		Quantity	Value f.o.b. plant	Quantity	Value at port	Quantity	Value 1/
2002							
Brick, building or common and facing 2/.....	1,000 bricks.....	8,040,874	1,714,504	37,135	9,022	0.5	0.5
Structural clay tile and ceramic glazed brick.....	.....do.....	(X)	22,150	(X)	5,126	(X)	23.1
Clay floor and wall tile 3/.....	1,000 sq meters...	60,339	825,229	3,874	27,879	6.4	3.4
Vitrified clay sewer pipe and fittings 4/.....	Metric tons.....	126,177	50,352	1,436	3,850	1.1	7.6
2001							
Brick, building or common and facing 2/.....	1,000 bricks.....	7,941,432	1,688,499	30,547	7,767	0.4	0.5
Structural clay tile and ceramic glazed brick.....	.....do.....	(X)	24,309	(X)	4,366	(X)	18.0
Clay floor and wall tile 3/.....	1,000 sq meters...	54,913	776,268	3,094	26,547	5.6	3.4
Vitrified clay sewer pipe and fittings 4/.....	Metric tons.....	149,832	53,302	1,106	2,901	0.7	5.4
	Unit of measure	Imports for consumption		Apparent consumption 6/		Percent imports to apparent consumption	
		Quantity	Value 5/	Quantity	Value 1/	Quantity	Value
2002							
Brick, building or common and facing 2/.....	1,000 bricks.....	25,164	7,541	8,028,903	1,713,023	0.3	0.4
Structural clay tile and ceramic glazed brick.....	.....do.....	(X)	3,542	(X)	20,566	(X)	17.2
Clay floor and wall tile 3/.....	1,000 sq meters...	189,022	1,567,948	245,487	2,365,298	77.0	66.3
Vitrified clay sewer pipe and fittings 4/.....	Metric tons.....	551	751	125,292	47,253	0.4	1.6
2001							
Brick, building or common and facing 2/.....	1,000 bricks.....	27,579	7,916	7,938,464	1,688,648	0.3	0.5
Structural clay tile and ceramic glazed brick.....	.....do.....	(X)	3,914	(X)	23,857	(X)	16.4
Clay floor and wall tile 3/.....	1,000 sq meters...	159,455	1,357,226	211,274	2,106,947	75.5	64.4
Vitrified clay sewer pipe and fittings 4/.....	Metric tons.....	200	339	148,926	50,740	0.1	0.7

X Not applicable.

1/Value calculations are based on the estimated producers' value of exports.

2/Import and export data include data for floor, paving, and sewer brick; and export data include data for heat insulating building brick: manufacturers' shipments data do not include data for floor, paving, sewer, and heat insulating building brick.

3/A conversion factor of 0.092903 thousands of square meters per one thousand square feet was used to convert manufacturers' shipments from thousands of square feet to thousands of square meters.

4/A conversion factor of 0.907185 metric tons per one short ton was used to convert manufacturers' shipments from short tons to metric tons. Import and export data include data for guttering, other conduits, other fittings, and other pipe: manufacturers' shipments data do not include data for guttering, other conduits, other fittings, and other pipe.

5/Represents the c.i.f. (cost, insurance, and freight) value at the first port of entry in the United States.

6/Apparent consumption is equal to manufacturers' shipments plus imports minus exports.

Note: Schedule B export codes and HTSUSA import codes are listed in Table 6.

Table 6. Comparison of Schedule B Export Codes and HTSUSA Import Codes: 2002

Product description	Export code	Import code
Brick, building or common and facing.....	6904.10.0015	6904.10.0020
	6904.10.0090	6904.10.0040
Structural clay tile and ceramic glazed brick.....	6904.90.0000	6904.90.0000
Clay floor and wall tile.....	6907.10.0000	6907.10.0000
	6907.90.0000	6907.90.0010
	6908.10.0000	6907.90.0050
	6908.90.0000	6908.10.1000
		6908.10.2000
		6908.10.5000
		6908.90.0010
		6908.90.0050
Vitrified clay sewer pipe and fittings.....	6906.00.0000	6906.00.0000

Sources: 2002 edition, Harmonized System-based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States; Harmonized Tariff Schedule of the United States, Annotated (2002).

Appendix.

General CIR Survey Information, Explanation of General Terms and Historical Note

GENERAL

The CIR program has been providing monthly, quarterly, and annual measures of industrial activity for many years. Since 1904, with its cotton and fats and oils surveys, the CIR program has formed an essential part of an integrated statistical system involving the quinquennial economic census, manufacturing sector, and the annual survey of manufactures. The CIR surveys, however, provide current statistics at a more detailed product level than either of the other two statistical programs.

The primary objective of the CIR program is to produce timely, accurate data on production and shipments of selected products. The data are used to satisfy economic policy needs and for market analysis, forecasting, and decision making in the private sector. The product-level data generated by these surveys are used extensively by individual firms, trade associations, and market analysts in planning or recommending marketing and legislative strategies, particularly if their industry is significantly affected by foreign trade. Although production and shipments information are the two most common data items collected, the CIR program collects other measures also such as inventories, orders, and consumption. These surveys measure manufacturing activity in important commodity areas such as textiles and apparel, chemicals, primary metals, computer and electronic components, industrial equipment, aerospace equipment, and consumer goods.

The CIR program uses a unified data collection, processing, and publication system. The U.S. Census Bureau updates the survey panels for most reports annually and reconciles the estimates to the results of the broader-based annual survey of manufactures and the economic census, manufacturing sector. The manufacturing sector provides a complete list of all producers of the products covered by the CIR program and serves as the primary source for CIR sampling. Where a small number of producers exist, CIR surveys cover all known producers of a product. However, when the number of producers is too large, cutoff and random sampling techniques are used. Surveys are continually reviewed and modified to provide the most up-to-date information on products produced. The CIR program includes a group of mandatory and voluntary surveys. Typically the monthly and quarterly surveys are conducted on a voluntary basis. Those companies that choose not to respond to the voluntary surveys are required to submit a mandatory annual counterpart corresponding to the more frequent survey.

NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS), 1997

The adoption of the North American Industry Classification System (NAICS) in the 1997 Economic Census has had a major impact on the comparability of current and historic data. Approximately half of the industries in the manufacturing sector of NAICS do not have comparable industries in the Standard Industrial Classification (SIC) system that was used in the past.

While most of the change affecting the manufacturing sector was change within the sector, some industries left manufacturing and others came into manufacturing. Prominent among those that left manufacturing are logging and portions of publishing. Prominent among the industries that came into the manufacturing sector are bakeries, candy stores where candy is made on the premises, custom tailors, makers of custom draperies, and tire retreading. The net effect of the classification changes are such that if the 1997 value of shipments data for all manufacturers were tabulated on an SIC basis, it would be approximately 3 percent higher.

Listed below are the NAICS sectors:

- 21 Mining
- 22 Utilities
- 23 Construction
- 31-33 Manufacturing
- 42 Wholesale Trade
- 44-45 Retail Trade
- 48-49 Transportation and Warehousing
- 51 Information
- 52 Finance and Insurance
- 53 Real Estate and Rental and Leasing
- 54 Professional, Scientific, and Technical Services
- 55 Management of Companies and Enterprises
- 56 Administrative and Support and Waste Management and Remediation Services
- 61 Educational Services
- 62 Health Care and Social Assistance
- 71 Arts, Entertainment, and Recreation
- 72 Accommodation and Foodservices
- 81 Other Services (except Public Administration)

(Not listed above are the Agriculture, Forestry, Fishing, and Hunting sector (NAICS 11), partially covered by the census of agriculture conducted by the U.S. Department of Agriculture, and the Public Administration sector (NAICS 92), covered by the census of governments conducted by the Census Bureau.)

The 20 NAICS sectors are subdivided into 96 subsectors (three-digit codes), 313 industry groups (four-digit codes), and, as implemented in the United States, 1170 industries (five- and six-digit codes).

FUNDING

The Census Bureau funds most of the surveys. However, a number of surveys are paid for either fully or partially by other Federal Government agencies or private trade associations. A few surveys are mandated, but all are authorized by Title 13 of the United States Code.

RELIABILITY OF DATA

Survey error may result from several sources including the inability to obtain information about all cases in the survey, response errors, definitional difficulties, differences in the interpretation of questions, mistakes in recording or coding the reported data, and other errors of collection, response, coverage, and estimation. These nonsampling errors also occur in complete censuses. Although no direct measurement of the biases due to these nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is the imputing of data for nonrespondents, for late reporters, and for data that fail logic edits. Missing figures are imputed based on period-to-period movements shown by reporting firms. A figure is considered to be an impute if the value was not directly reported on the questionnaire, directly derived from other reported items, directly available from supplemental sources, or obtained from the respondent during the analytical review phase. Imputation generally is limited to a maximum of 10 percent for any one data cell. Figures with imputation rates greater than 10 percent are suppressed or footnoted. The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, because the actual yearly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is assumed to be small. The degree of uncertainty regarding the accuracy of the published data increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

DATA REVISIONS

Statistics for previous years may be revised as the result of corrected figures from respondents, late reports for which imputations were originally made, or other corrections. Data that have been revised by more than 5 percent from previously published data are indicated by footnotes.

DISCLOSURE

The Census Bureau collects the CIR data under the authority of Title 13, United States Code, which specifies that the information can only be used for statistical purposes and cannot be published or released in any manner that would identify a person, household, or establishment. "D" indicates that data in the cell have been suppressed to avoid disclosure of information pertaining to individual companies.

EXPLANATION OF GENERAL TERMS

Capacity. The maximum quantity of a product that can be produced in a plant in 1 day if operating for 24 hours. Includes the capacity of idle plants until the plant is reported to be destroyed, dismantled, or abandoned.

Consumption. Materials used in producing or processing a product or otherwise removing the product from the inventory.

Exports. Includes all types of products shipped to foreign countries, or to agents or exporters for reshipment to foreign countries.

Gross shipments. The quantity or value of physical shipments from domestic establishments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale or use. Shipments of products purchased for resale are omitted. Shipments of products made under toll arrangements are included.

Interplant transfers. Shipments to other domestic plants within a company for further assembly, fabrication, or manufacture.

Inventories. The quantity or value of finished goods, work in progress, and materials on hand.

Machinery in place. The number of machines of a particular type in place as of a particular date whether the machinery was used for production, prototype, or sampling, or was idle. Machinery in place includes all machinery set up in operating positions.

Net receipts. Derived by subtracting the materials held at the end of the previous month from the sum of materials used during the current month.

Production. The total volume of products produced, including: products sold; products transferred or added to inventory after adjustments for breakage, shrinkage, and obsolescence, plus any other inventory adjustment; and products that undergo further manufacture at the same establishment.

Quantities produced and consumed. Quantities of each type of product produced by a company for internal consumption within that same company.

Quantity and value of new orders. The sales value of orders received during the current reporting period for products and services to be delivered immediately or at some future date. Also represents the net sales value of contract change documents that increase or decrease the sales value of the orders to which they are related, when the parties concerned are in substantial agreement as to the amount involved. Included as orders are only those that are supported by binding legal documents such as signed contracts or letter contracts.

Quantity and value of shipments. The figures on quantity and value of shipments represent physical shipments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and

returns. Shipments to a company's own branches are assigned the same value as comparable appropriate allocation of company overhead and profit. Products bought and resold without further manufacture are excluded.

Stocks. Total quantity of ending finished inventory.

Unfilled orders (backlog). Calculated by adding net new orders and subtracting net sales from the backlog at the end of the preceding year.

HISTORICAL NOTE

Data on clay products have been collected by the Census Bureau since 1947. Historical data may be obtained from Current Industrial Reports (called Facts for Industry before 1959) available at your local Federal Depository Library.